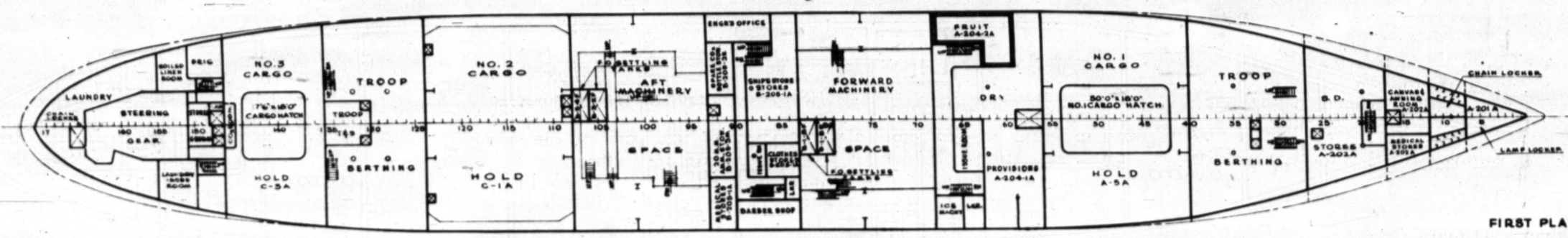
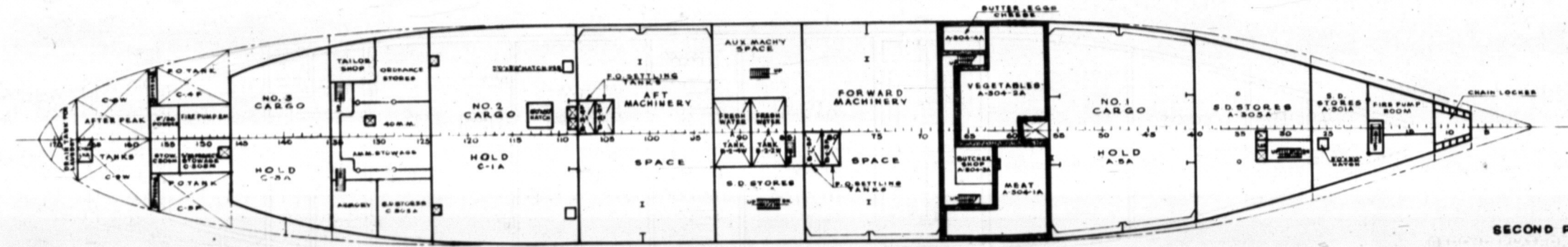


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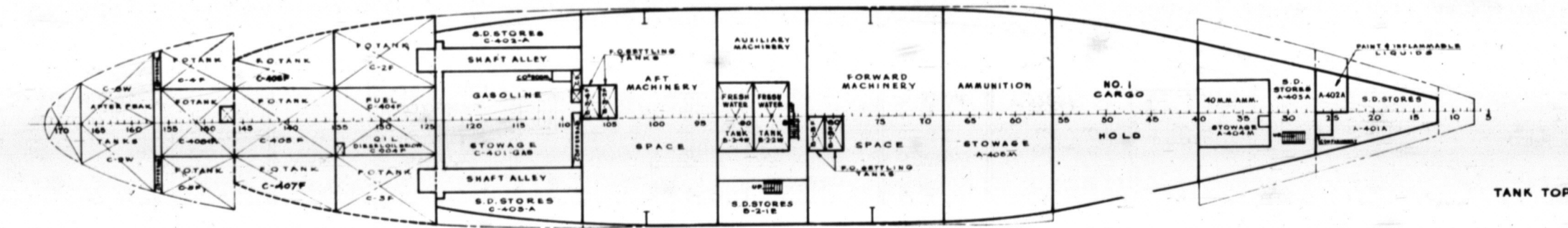
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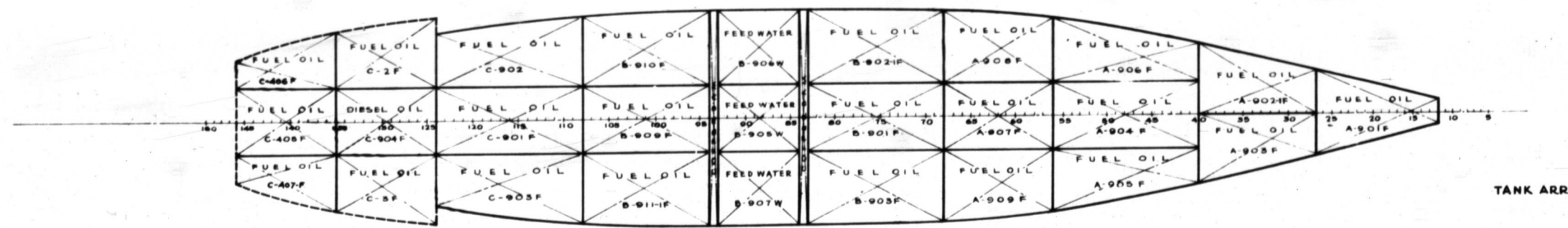
FIRST PLATFORM



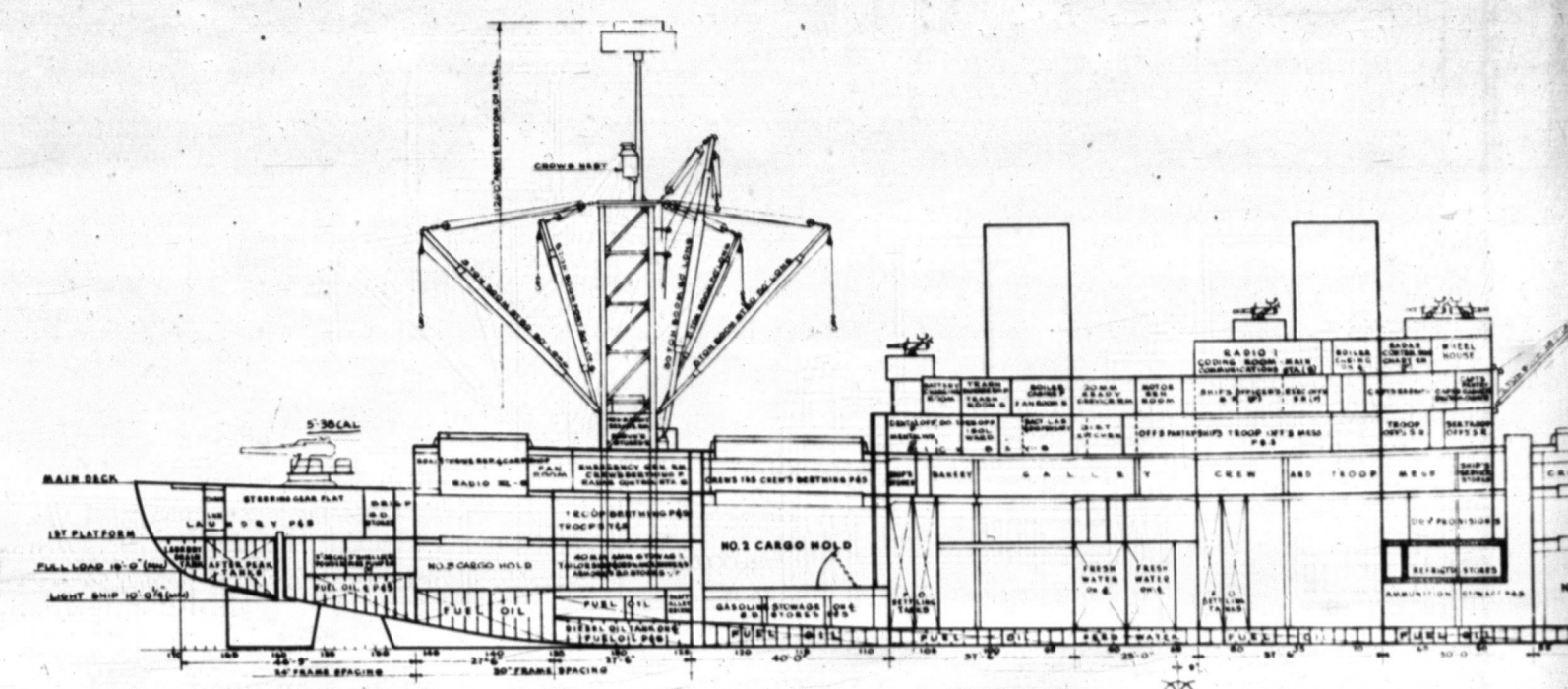
SECOND PLATFORM



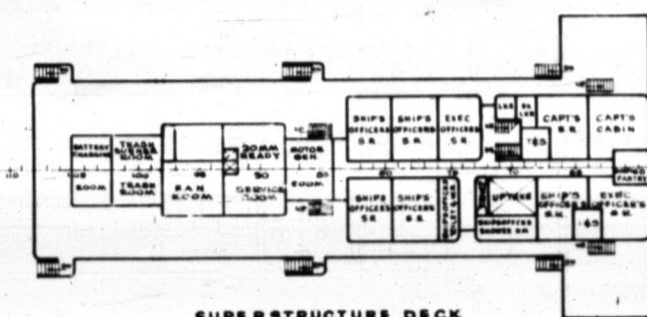
TANK TOP



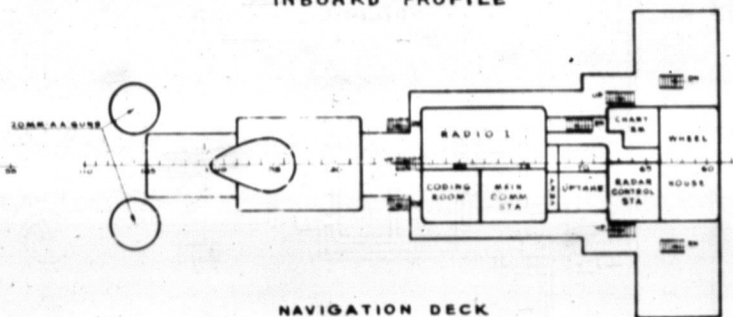
TANK ARRANGEMENT



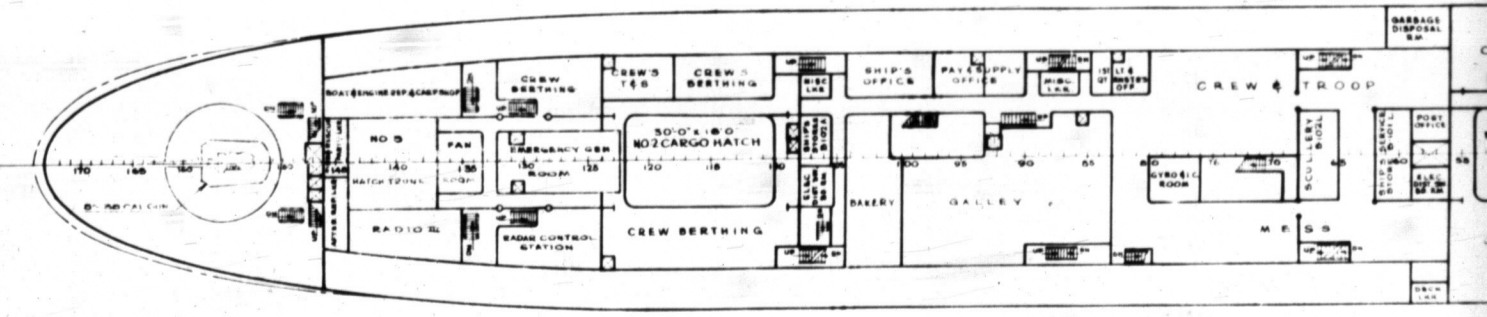
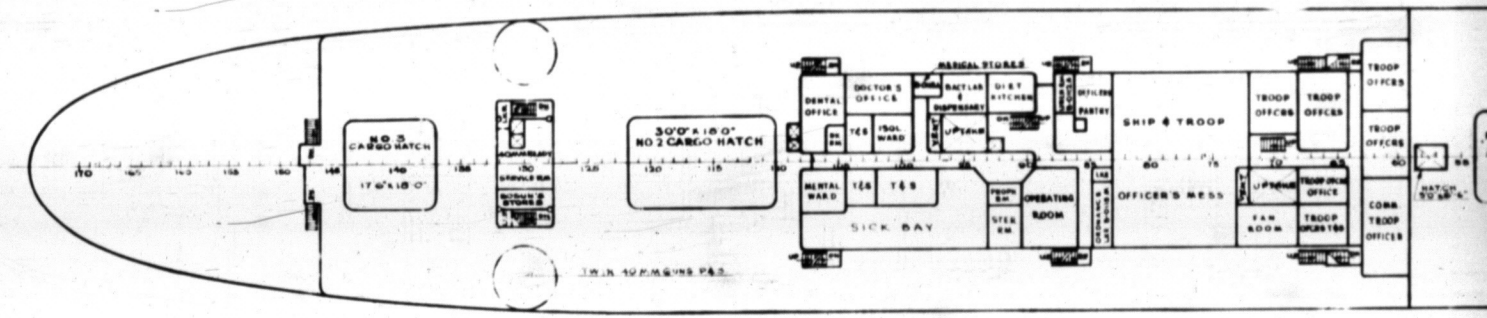
INBOARD PROFILE

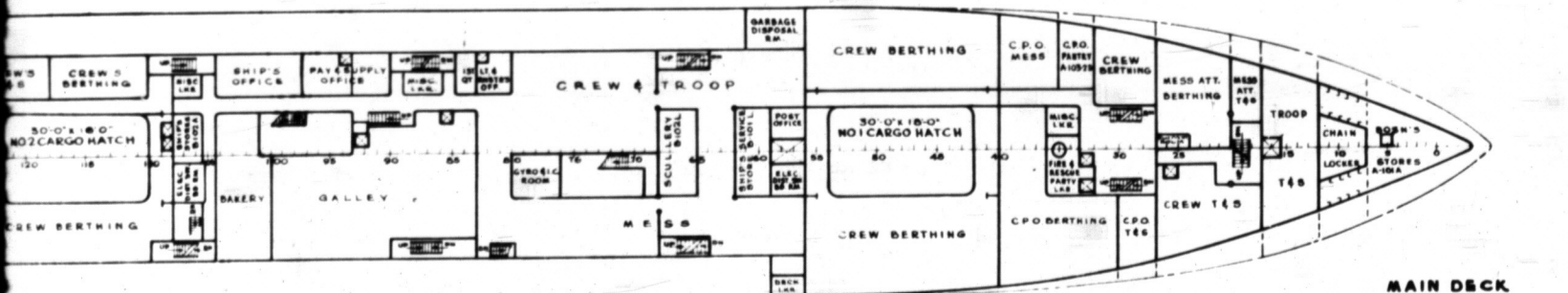


SUPERSTRUCTURE DECK



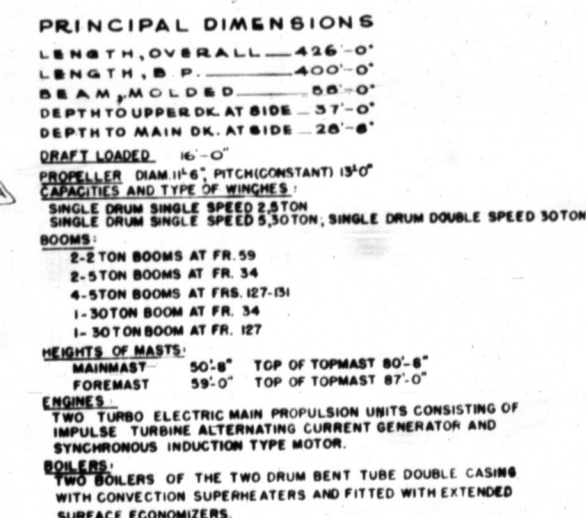
NAVIGATION DECK





RESERVE FEED WATER, FRESH WATER & SALT WATER BALLAST TANKS									
TANK NO.	LOCATION (X-Y-Z)	FULL CAPACITY			NET C.V. AMOUNT OF SEAL	LONG C.V.	APT.		
		BALLONS	TONS PER 5000	TONS PER 5000					
RESERVE FEED WATER TANKS									
B-005W	84- 93(E)	8960	55.3	54.2	1.86		9.50		
B-906W	84- 93(F)	9150	54.0	54.9	1.88		9.56		
B-907W	84- 93(S)	9150	54.0	54.9	1.86		9.56		
TOTAL		27260	161.3	164.0					
FRESH WATER TANKS									
B-2-2 W	85-09(E)	22660	84.1	86.8	11.57		5.77		
B-2-4 W	89-09(S)	22690	84.5	86.7	11.57		15.77		
TOTAL		45350	168.6	173.2					
SALT WATER BALLAST TANKS									
A - 1 W	STEM-124	142.0	57.8	54.3	15.26	16755			
C - 8 W	157-167(F)	157.50	58.6	60.2	17.82		185.4		
C - 9 W	157-167(S)	152.80	56.7	58.4	17.74		185.4		
TOTAL		452.40	168.0	172.9					

STORES FOR PERSONNEL						
COMPT NO.	SPACE	LOCATION (FRAME)	DECK	BALE VOLUME GROSS (CU) (CU)	LONG C.V. (CU) (CU)	NET WT (LB)
A-202-A	MEDICAL STORES	12-17 S	1ST PLAT	850	171.86	35
B-101-A	SHIPS STORES	05-108 P	MAIN BK	600		58.25 35
B-101-L	SHIPS SERVICE STORE	59-62 P4S	MAIN BK	1,070	60.50	35
B-205-1A	CLOTHES STORE	05-06 E	1ST PLAT	640		0.56 24
B-205-1A	MEDICAL STORES	90-05 P	1ST PLAT	880		17.00 24
B-205-1A	SHIPS STORES	05-09 P4S	1ST PLAT	3,260		2.29 24
B-0103-A	MEDICAL STORES	07-09 P	UPPER DK	190		33.50 41
TOTAL				7,390		



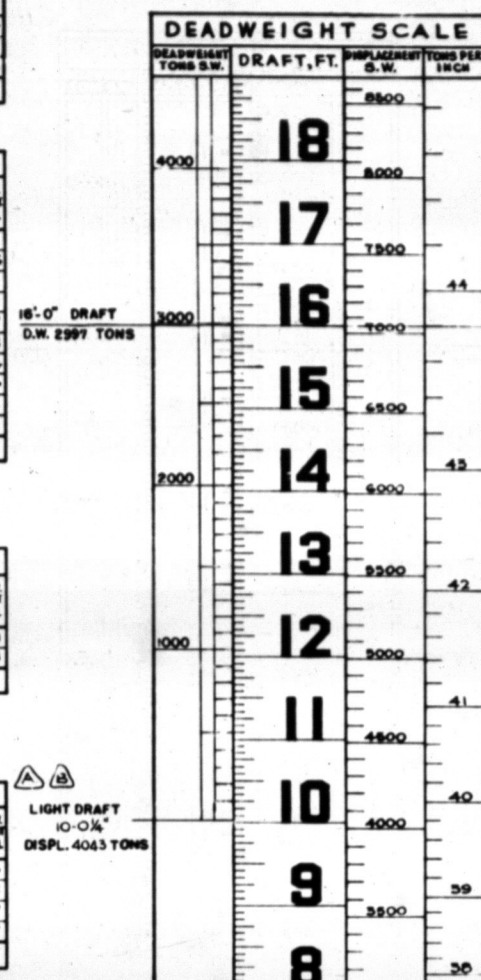
GEN
1 TANK CAPACITY
WITH DEDUCTIONS
WITHIN THE TA
2 THE BALE CAPA
TOP OF INNER BOT
BEAMS AND HATCH
SIDE, AND TO BULK
AT ENDS, WITH DE
3. THE CAPACITY
FEET ARE BALE

THE FOLLOWING

1 TON
1 TON
1 " F
1 " F
1 " F
1 BAR
1 CUR

15M WATER & SALT WATER BALLAST TANKS						
NO.	TOTAL CAPACITY		NET C.V. AMOUNT OF REEL	LONG C.V.		APT. Q.
	FRESH WATER SECTON	SALT WATER SECTON		FWD	AFT	
NO. 8						
50	33.3	34.2	1.86			9.50
60	34.0	34.9	1.88			9.58
50	34.0	34.9	1.86			9.58
60	101.8	104.0				
NO. 9						
50	84.1	86.5	11.57			5.77
60	84.5	86.7	11.57			15.77
60	168.4	173.2				
NO. 10						
50	52.8	54.3	15.26	187.55		
50	58.5	60.2	17.82			163.49
50	56.7	58.4	17.74			163.49
60	168.0	172.9				

STORES FOR PERSONNEL							
COMPT NO.	SPACE	LOCATION (FRAME)	DECK	SALE VOLUME CU. FT.	LONG- EV. CH. PER CENT	ASST PER CENT	VERT. CH. PER CENT
A-202-A	MEDICAL STORES	12-17 S	1ST PLAT.	850	171.54		50.00
B-101-A	SHIP'S STORES	105-108 P	MAIN DEK.	900		55.25	35.44
B-101-L	SHIPS SERVICE STORE	59-62 P4S	MAIN BK.	1,070	60.50		33.50
B-205-A	CLOTHES STORE	85-86 E	1ST PLAT.	640		0.56	24.34
B-205-A	MEDICAL STORES	90-93 P	1ST PLAT.	880		17.00	24.21
B-205-A	SHIP'S STORE STORES	93-99 P4S	1ST PLAT.	3,280		2.29	24.32
B-0105-A	MEDICAL STORES	97-90 P	UPPER DEK.	190			33.80
			TOTAL	7,390			






 LIGHT DRAFT —

 10-0 1/4"

 DISPL. 4043 TONS

PRINCIPAL DIMENSIONS

LENGTH, OVERALL _____ 426'-0"
LENGTH, B.P. _____ 400'-0"
B.E.A.M., MAX. O.D.D. _____ 86'-0"
DEPTH TO UPPER DECK AT SIDE _____ 37'-0"
DEPTH TO MAIN CK. AT SIDE _____ 26'-6"

DRAFT LOADED _____ 16'-0"

PROPELLER DIAM. 116" S. PITCH (CONSTANT) 13°
CAPACITIES AND TYPE OF WINGES:

SINGLE DRUM SINGLE SPEED 2,80TON
SINGLE DRUM SINGLE SPEED 4,30TON; SINGLE DRUM DOUBLE SPEED 50TON
BOOMS:

2-TON BOOMS AT FR. 59
2-5TON BOOMS AT FR. 37
4-5TON BOOMS AT FRB. 127-151
1-30TON BOOM AT FR. 34
1-30TON BOOM AT FR. 127

HEIGHTS OF MASTS:

MAHMAST 50'-8" TOP OF TOPMAST 80'-8"
FOREMAST 59'-0" TOP OF TOPMAST 87'-0"

ENGINES:

TWO TURBO ELECTRIC MAIN PROPULSION UNITS CONSISTING OF
IMPULSE PULSING ALTERNATING CURRENT GENERATOR AND
SYNCHRONOUS INDUCTION TYPE MOTOR.

BOILERS:

TWO BOILERS OF THE TWO DRUM BENT TUBE DOUBLE CASING
WITH CONVECTION SUPERHEATERS AND FITTED WITH EXTENDED
SURFACE ECONOMIZERS.

NOTES

LIGHT SHIP WEIGHT

THE LIGHT SHIP WEIGHT OF THE VESSEL AS DETERMINED FROM A DEADWEIGHT DETERMINATION MADE ON 11-1-60 WAS 4,000 TONS. THIS LIGHT SHIP WEIGHT IS THE WEIGHT OF THE VESSEL COMPLETE AND READY FOR SEA IN EVERY RESPECT. IT INCLUDES THE WEIGHT OF LIQUIDS IN MACHINERY, FIRE AND SANITARY LINES, FUEL OIL, SYSTEM, SPARE PARTS, BOATSWAIN AND DECK STORES, MATTRESSES AND BEDDING, ALSO INCLUDED:

	NO.	LENGTH	PERSONS	TYPE	LOCATION	WEIGHT
LANDING BOATS	2	36'		L.C.V.R.	ONE OFFER, ONE ON DECK	15,000# EA.
"	2	30'		L.C.M.	ONE OFFER, ONE ON DECK	45,000# EA.
LIFE FLOATS	10	8'	25	BALSAWOOD	P&S-MAIN DECK	300# EA.
LIFE RAFTS	NONE					

NO.	TYPE	LOCATION	WEIGHT(LBS)
1	5' 3" S	MAIN DECK FR. 187 &	34500
2	40MM TWIN	9/5 FR. 20 UPPER DECK	13800EA
2	40MM TWIN	9/5 FR. 130 UPPER DECK	" "
4	20MM	9/5 FR. 64 TOP OF HOUSE	1680 EA
2	20MM	9/5 FR. 76 TOP OF HOUSE	" "
2	20MM	9/5 FR. 106 NAV. DECK	" "
2	20MM	9/5 FR. 20 1/2 TOP OF HOUSE	" "

ITEMS NOT INCLUDED IN LIGHT SHIP WEIGHT ARE: AMMUNITION, FUEL OIL IN STORAGE TANKS, FRESH WATER, CARGO, CONSUMABLE REFRIGERATED OR DRY STORES, PASSENGERS, CREW OR THEIR EFFECTS.

COMPLEMENT			
SHIP'S OFFICERS	19		
ENLISTED PERSONNEL CPO.	21		
ENLISTED PERSONNEL OTHERS	240	250	
MARINE OFFICERS	5		
MARINES	262	267	
	TOTAL	547	

GENERAL NOTES

1. TANK CAPACITIES ARE BASED ON THE MOLDED VOLUMES WITH DEDUCTIONS FOR STEEL STRUCTURE AND PIPING WITHIN THE TANKS.
2. THE BALE CAPACITY OF A SPACE IS THE VOLUME FROM TOP OF INNER BOTTOM OR CEILING TO UNDER SIDE OF DECK BEAMS AND HATCH BEAMS ABOVE, TO CARGO BATTENS AT SIDE, AND TO BULKHEAD STIFFENERS, PLATING OR BATTENS AT ENDS, WITH DEDUCTIONS FOR INTERVENING STRUCTURE.
3. THE CAPACITIES OF STORES SPACES IN NET CUBIC FEET ARE BALE CAPACITIES.

THE FOLLOWING CONVERSION VALUES ARE USED:

1 TON	2240 LBS.
1 TON SALT WATER	35 CU FT.
1 " FRESH "	36 " "
1 " FUEL OIL	37 " "
1 " DIESEL OIL	41.98 " "
1 BARREL	42 GALS.
1 CUBIC FOOT	7.48 "

ALTERATIONS

ALT NO.	HAZEL TIER	DESCRIPTION	MADE BY	DESIGN AGENT	USMC
				DATE APPLD	DATE / APPLD
A	2,3	DEADWEIGHT SCALE AND MACHINERY DATA ADDED EFFECTIVE 1485-1983	AGM	12-7-94	
B	2,3	LIGHT SHIP & DEADWEIGHT TONNAGE ALTERED TO AGREE WITH 2ND EDITIONAL OF DEADWEIGHT DATA EFFECTIVE 1485-1987	AGM	1-1-95	

[illegible]

COMBAT LOADED CARGO VESSEL
DESIGN S4-SE2-BE1
UNITED STATES MARITIME COMMISSION
WEST COAST REGIONAL OFFICE
OAKLAND, CALIFORNIA

CAPACITY PLAN

**U.S.S. LUMEN
AKA 30**

P. L. JOSLYN
M. J. RYAN

MARINE ENGINEERS
148 NEW MONTGOMERY ST.

NAVAL ARCHITECTS
SAN FRANCISCO, CALIF.

PLAN NO. BE1-S 2901-3 ALT. B

DRAWN BY R.F. Crowell SCALE 1/8" = 1'-0"

TRACED BY DATE JAN 16, 1984

CHECKER SUPERVISOR M.J. Ryan

APPROVED E.M. Morgan APPROVED M.J. Ryan

APPROVALS

USMC _____

ABS _____

USCG _____

E. W. Hoffman 1/14/40
for H. E. L. Allen

U. S. M. C. PLAN NUMBER	
1882-529-172	ALT.

BUREAU OF SHIPS PLAN NUMBER	
AKA 21-S2901-437166	ALT.

NO.	PLAN NO.	TITLE
REFERENCE PLANS		